

Using PubMed

<http://PubMed.gov>



National Network of Libraries of Medicine, South Central Region
Houston Academy of Medicine-Texas Medical Center Library
1133 John Freeman Blvd.
Houston, TX 77030

NLM Contract No.: N01-LM-1-3515

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SCOPE OF PUBMED

Entrez System

- A search and retrieval system that integrates information from databases at the National Center for Biotechnology Information (NCBI) including PubMed, the Journals Database and the MeSH Browser

Coverage

- Approximately 12 Million records
- 1953-Present
- Close to 4600 current journals in English and 70 foreign languages are indexed
- Medicine, nursing, dentistry, veterinary medicine, health care system, preclinical sciences
- Includes MEDLINE, OLDMEDLINE, In Process Citations, and Publisher-Supplied Citations

MEDLINE

- NLM's premiere database of biomedical journal citations
- Coverage 1966-present
- Citations are listed in PubMed with a [PubMed - indexed for MEDLINE] notation

❑ 6: [Stephenson J.](#)



Monkeypox outbreak a reminder of emerging infections vulnerabilities.
JAMA. 2003 Jul 2;290(1):23-4. No abstract available.
PMID: 12837700 [PubMed - indexed for MEDLINE]

OLDMEDLINE

- Current coverage 1953-1965.
- NLM expects to continue converting older citations and adding them to PubMed
- Have no abstracts
- Citations are listed with a [PubMed - OLDMEDLINE for Pre1966] notation

❑ 1: [MCCONNELL SJ, SPERTZEL RO, HUXSOLL DL, ELLIOTT LH, YAGER RH.](#)



PLAQUE MORPHOLOGY OF MONKEYPOX VIRUS AS AN AID TO STRAIN IDENTIFICATION.
J Bacteriol. 1964 Jan;87:238-9. No abstract available.
PMID: 14105195 [PubMed - OLDMEDLINE for Pre1966]

In Process Citations

- Provides basic citation information and abstracts before the full records are prepared and added to MEDLINE
- Citations are listed with a [PubMed - in process] notation

□ 3: [Maskalyk J.](#)



Monkeypox outbreak among pet owners.
CMAJ. 2003 Jul 8;169(1):44-5. No abstract available.
PMID: 12847040 [PubMed - in process]

Publisher-Supplied citations

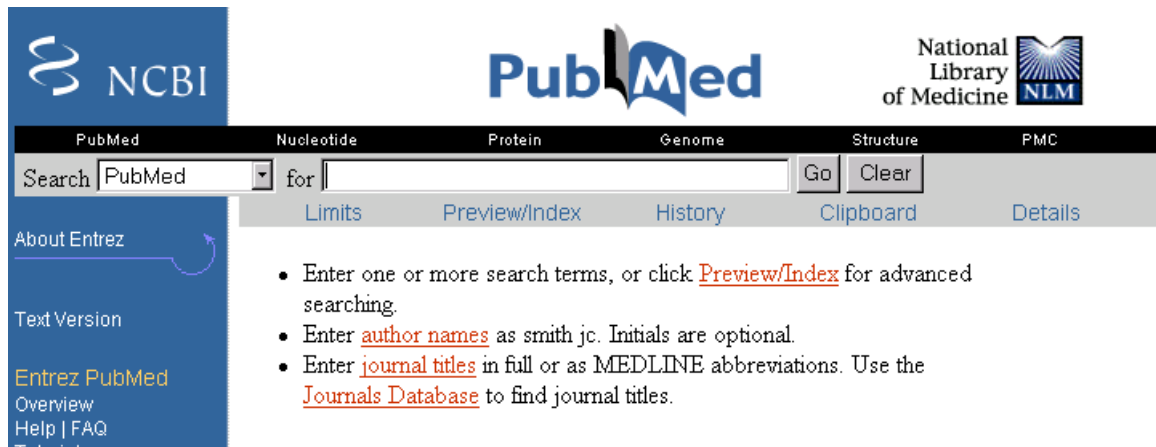
- Publishers can send citations electronically to PubMed
- Citations are listed with a [PubMed - as supplied by publisher] notation

□ 1: [\[No authors listed\]](#)



Update: Multistate Outbreak of Monkeypox--Illinois, Indiana, Kansas, Missouri, Ohio, and Wisconsin, 2003.
JAMA. 2003 Jul 16;290(3):325-327. No abstract available.
PMID: 12865364 [PubMed - as supplied by publisher]

SEARCHING PUBMED



Performing a Simple Search

- Enter search terms in the query box and click on the *Go* button

Automatic Term Mapping

- In a simple search, terms are simply typed in the search bar with no tags. In PubMed, terms without tags are matched against lists and tables in this order:
 - MeSH (Medical Subject Headings) Translation Table
 - Journals Translation Table
 - Author Index (Author name format: last name first initial second initial, i.e. Smith JC)

Phrase Searching

- The PubMed system searches for a phrase when:
 - 1) The search tag [tw] is entered after the phrase
 - 2) The phrase is in quotation marks
 - 3) It is an hyphenated phrase
 - 4) The phrase is truncated

Truncation

- Truncation allows you to find all terms that begin with a given text string
- Place an asterisk (*) at the end of a term to search for all terms that begin with that term
- The asterisk can only be used at the end of a term
- Truncating a term will override the PubMed automatic mapping feature

Details

- *Details* allows you to view your search strategy as it was translated using PubMed's automatic term mapping and search rules and syntax
- Click on *Details* to view the *PubMed Query* box and the *Translations* section
- The terms in brackets detail how the search was interpreted
- *[MeSH Terms]* means the search term was mapped to a MeSH heading
- *[Text Word]* means the search term was found to be a known term or phrase in the database
- Any search term with *[All Fields]* after it in the *PubMed Query* box means the term was not known in the database and the term was searched as a keyword in every field

The screenshot shows the PubMed 'Details' page for a search. At the top, there is a search bar with the text 'for heart attack treatment prevention' and buttons for 'Go' and 'Clear'. Below the search bar are tabs for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details' (which is selected). The main content area is divided into several sections:

- PubMed Query:** A text box containing the following query:

```
((("myocardial infarction"[MeSH Terms] OR heart attack[Text Word]) AND (("therapy"[MeSH Subheading] OR "therapeutics"[MeSH Terms]) OR treatment[Text Word])) AND ("prevention and control"[MeSH Subheading] OR prevention[Text Word]))
```
- Search** and **URL** buttons.
- Result:** A section showing the number of results, [8791](#).
- Translations:** A table showing the translation of the search terms:

heart attack[All Fields]	("myocardial infarction"[MeSH Terms] OR heart attack[Text Word])
treatment[All Fields]	((("therapy"[MeSH Subheading] OR "therapeutics"[MeSH Terms]) OR treatment[Text Word])
prevention[All Fields]	("prevention and control"[MeSH Subheading] OR prevention[Text Word])
- Database:** A section showing the database used, PubMed.
- User Query:** A section showing the original user query, heart attack treatment prevention.

- The *PubMed Query* box allows you to edit a search strategy and run another search by clicking on the *Search* button
- The *URL* button allows you to save a search strategy as an HTML file
- Clicking on the number of results returns you to the Search Result Screen

SEARCH RESULTS SCREEN

The screenshot shows the PubMed search results page. At the top, there are logos for NCBI, PubMed, and the National Library of Medicine (NLM). Below the logos is a navigation bar with tabs for PubMed, Nucleotide, Protein, Genome, Structure, PMC, Taxonomy, OMIM, and Books. The search bar contains the text 'SARS treatment' and buttons for 'Go' and 'Clear'. Below the search bar are links for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. On the left side, there is a sidebar with links for 'About Entrez', 'Text Version', 'Entrez PubMed', 'Overview', 'Help | FAQ', 'Tutorial', 'New/Noteworthy', 'E-Utilities', 'PubMed Services', 'Journals Database', 'MeSH Database', 'Single Citation Matcher', 'Batch Citation Matcher', 'Clinical Queries', 'LinkOut', and 'Cubby'. The main content area shows a list of search results. The first result is 'Thin-Section CT in Patients with Severe Acute Respiratory Syndrome Following Hospital Discharge: Preliminary Experience.' by Antonio GE, Wong KT, Hui DS, Wu A, Lee N, Yuen EH, Leung CB, Rainer TH, Cameron P, Chung SS, Sung JJ, Ahuja AT. The second result is 'Update: severe acute respiratory syndrome--United States, June 4, 2003.' by MMWR Morb Mortal Wkly Rep. 2003 Jun 6;52(22):525-6. The third result is 'Update: severe acute respiratory syndrome--Toronto, Canada, 2003.' by MMWR Morb Mortal Wkly Rep. 2003 Jun 13;52(23):547-50. The results are displayed in a table with columns for 'Display', 'Summary', 'Show', 'Sort', and 'Send to'. The 'Show' column shows '20' items. The 'Send to' column shows 'Text'. The results are numbered 1 through 3. The first result is '1: Antonio GE, Wong KT, Hui DS, Wu A, Lee N, Yuen EH, Leung CB, Rainer TH, Cameron P, Chung SS, Sung JJ, Ahuja AT. Thin-Section CT in Patients with Severe Acute Respiratory Syndrome Following Hospital Discharge: Preliminary Experience. Radiology. 2003 Jun 12 [Epub ahead of print]. PMID: 12805557 [PubMed - as supplied by publisher]'. The second result is '2: [No authors listed]. Update: severe acute respiratory syndrome--United States, June 4, 2003. MMWR Morb Mortal Wkly Rep. 2003 Jun 6;52(22):525-6. PMID: 12803200 [PubMed - indexed for MEDLINE]'. The third result is '3: [No authors listed]. Update: severe acute respiratory syndrome--Toronto, Canada, 2003. MMWR Morb Mortal Wkly Rep. 2003 Jun 13;52(23):547-50. PMID: 12803194 [PubMed - indexed for MEDLINE]'. Each result has a 'Related Articles, Links' link.

Query Box

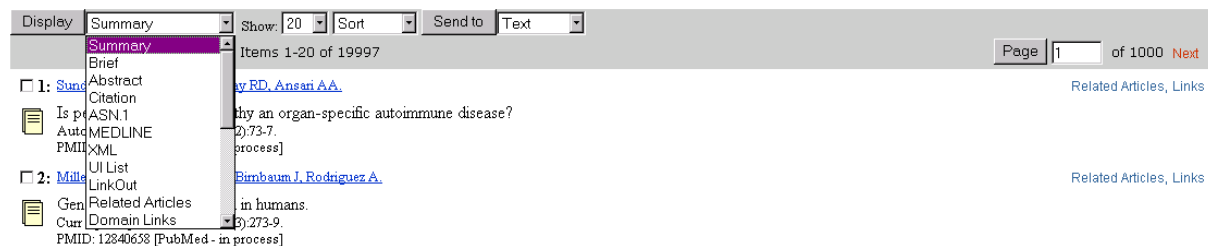
- On the results screen, the query box is always active
- The *Clear* button will allow you to delete the contents of the query box so you can start a new search

Display Formats

- The default display is the *Summary* format
- Clicking on the author names takes you to the *Abstract* display of the citation
- Notice that some citations include links to Comments or Corrections:

The screenshot shows the abstract for the first result. The 'Display' dropdown is set to 'Abstract'. The 'Show' dropdown is set to '20'. The 'Sort' dropdown is set to 'Text'. The 'Send to' dropdown is set to 'Text'. The first result is '1: J Am Coll Cardiol. 2003 Jun 18;41(12):2185-92. Related Articles, Links'. Below the result is a 'Comment in:' section with a link to 'J Am Coll Cardiol. 2003 Jun 18;41(12):2193-6. ELSEVIER SCIENCE FULL-TEXT ARTICLE'. The abstract title is 'Familial atrial fibrillation is a genetically heterogeneous disorder.' The authors are 'Darbar D, Herron KJ, Ballew JD, Jahangir A, Gersh BJ, Shen WK, Hammill SC, Packer DL, Olson TM.' The department is 'Department of Medicine, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, Minnesota 55905, USA.' The objectives are 'The aims of this study were to identify and characterize familial cases of atrial fibrillation (AF) in our clinical practice and to determine whether AF is genetically heterogeneous. BACKGROUND: Atrial fibrillation is not generally regarded as a heritable disorder, yet a genetic locus for familial AF was previously mapped to chromosome 10. METHODS: Of 2,610 patients seen in our arrhythmia clinic during an 18-month study period, 914 (35%) were diagnosed with AF. Familial cases were identified by history and medical records review. Four multi-generation families with autosomal dominant AF (FAF 1 to 4) were tested for linkage to the chromosome 10 AF locus. RESULTS: Fifty probands (5% of all AF patients; 15% of lone AF patients) were identified with lone AF (age 41 +/- 9 years) and a positive family history (1 to 9 additional relatives affected). In FAF 1 to 3, AF was associated with rapid ventricular response. In contrast, AF in FAF-4 was associated with a slow ventricular response and, with progression of the disease,

- To change the display format click on the *Display* dropdown box
- Choose a format
- Click on the *Display* button to display results in the new format



Summary format: Complete citation including author(s), title of article, journal source, and PubMed Unique Identifier (PMID)

Abstract format: Everything in the *Summary* plus the abstract of the article

Citation format: Everything in the *Abstract* plus the MeSH headings for the article

MEDLINE format: This gives the two-character tagged fields for all fields of the MEDLINE record. **Note:** Use the *MEDLINE* format for importing PubMed citations into bibliographic management databases (i.e. EndNote, Reference Manager, Pro Cite)

- The icons next to the citations in the *Summary* format indicates whether the citation:



has no abstract



has an abstract



is available free as Full-Text in PubMed Central



is available free as Full-Text elsewhere

- 77: [Yamamoto S, Yang G, Zablocki D, Liu J, Hong C, Kim SJ, Soler S, Odashima M, Thaisz J, Yehia G, Molina CA, Yatani A, Vatner DE, Vatner SF, Sadoshima J](#) [Related Articles, Links](#)
 Activation of Mst1 causes dilated cardiomyopathy by stimulating apoptosis without compensatory ventricular myocyte hypertrophy.
 J Clin Invest. 2003 May;111(10):1463-74.
 PMID: 12750396 [PubMed - indexed for MEDLINE]
- 78: [Turoczy T, Jun L, Cordis G, Morris JE, Maulik N, Stevens RG, Das DK](#) [Related Articles, Links](#)
 HFE mutation and dietary iron content interact to increase ischemia/reperfusion injury of the heart in mice.
 Circ Res. 2003 Jun 13;92(11):1240-6. Epub 2003 May 15.
 PMID: 12750309 [PubMed - indexed for MEDLINE]
- 79: [Glatter KA, Chiamvimonvat N](#) [Related Articles, Links](#)
 Tachy- or bradyarrhythmias: implications for therapeutic intervention in LQT3 families.
 Circ Res. 2003 May 16;92(9):941-3. No abstract available.
 PMID: 12750302 [PubMed - indexed for MEDLINE]
- 80: [Plunkett A, Hulse JA, Mishra B, Gill J](#) [Related Articles, Links](#)
 Variable presentation of Brugada syndrome: lessons from three generations with syncope.
 BMJ. 2003 May 17;326(7398):1078-9. Review. No abstract available.
 PMID: 12750212 [PubMed - indexed for MEDLINE]

Sort

- Citations are displayed in order of most recently indexed citations first: last in, first out
- *Sort* allows you to re-sort your results by Author, Journal or Publication Date
- To re-sort the citations, select a sort field (Author, Journal, Pub Date) from the *Sort* dropdown box and click on the *Display* button

Show

- *Show* allows you to change the number of results displayed per page
- Click on the *Show* dropdown box to change the number of documents per page
- Click on the *Display* button to redisplay the results

Display Summary Show: 20 Sort Send to Text

Items 1-20 of 153

Page 1 of 8 Next

1: Antonio GE, Wong KT, Hui DS, Wu A, Lee N, Yuen EH, Leung CB, Rainer TH, Cameron P, Chung SS, Sung JJ, Ahuja AT. Thin-Section CT in Patients with Severe Acute Respiratory Syndrome Following Hospital Discharge: Preliminary Experience. Radiology. 2003 Jun 12 [Epub ahead of print]. PMID: 12805557 [PubMed - as supplied by publisher]

- *Items* denotes the total number of citations found and which numbers you are currently viewing
- *Page* denotes the total number of pages of results and which page you are currently viewing
- *Previous* and *Next* allows you to move from one page to another
- To jump to another page, type the page number in the page box and click on the *Page* button

Display Summary Show: 20 Sort Send to Text

Items 21-40 of 153

Previous Page 2 of 8 Next

Send to

- The *Send to* button provides you various ways handle the search results: *Text*, *File*, *Clipboard*, *E-mail* and *Order*

Display Summary Show: 20 Sort Send to Text

Items 1-20 of 153

Page 1 of 8 Next

1: Antonio GE, Wong KT, Hui DS, Wu A, Lee N, Yuen EH, Leung CB, Rainer TH, Cameron P, Chung SS, Sung JJ, Ahuja AT. Thin-Section CT in Patients with Severe Acute Respiratory Syndrome Following Hospital Discharge: Preliminary Experience. Radiology. 2003 Jun 12 [Epub ahead of print]. PMID: 12805557 [PubMed - as supplied by publisher]

Send to: Text

- *Text* allows you to redisplay citations using just the text of the record and omitting the Web or HTML components
- Select *Text* in the dropdown box and click on the *Send to* button
- Use your Web browser's Back button to return to your results in HTML
- The text version will display either selected citations, or if no citations are selected, all the citations on a single page

```
1: Antonio GE, Wong KT, Hui DS, Wu A, Lee N, Yuen EH, Leung CB, Rainer TH,
Cameron P, Chung SS, Sung JJ, Ahuja AT.
Thin-Section CT in Patients with Severe Acute Respiratory Syndrome Following
Hospital Discharge: Preliminary Experience.
Radiology. 2003 Jun 12 [Epub ahead of print]
PMID: 12805557 [PubMed - as supplied by publisher]

2: [No authors listed]
Update: severe acute respiratory syndrome--United States, June 4, 2003.
MMWR Morb Mortal Wkly Rep. 2003 Jun 6;52(22):525-6.
PMID: 12803200 [PubMed - indexed for MEDLINE]

3: [No authors listed]
Update: severe acute respiratory syndrome--Toronto, Canada, 2003.
MMWR Morb Mortal Wkly Rep. 2003 Jun 13;52(23):547-50.
PMID: 12803194 [PubMed - indexed for MEDLINE]
```

Printing

- Use the Print function of your Web browser to print a page at a time
- HINT: Use *Show* to increase the number of citation displayed on a page
- To eliminate graphics, etc., consider using the *Text* option described above

Send to: File

- *File* allows you to save your search results
- Select *File* in the dropdown box and click on the *Send to* button
- Though only the first batch of citations are displayed (i.e. 1-20), this option allows you to save up to 10,000 citations
- To save selected citations, click in the check box next to individual citations, and then choose the *File* option
- The saved results can be viewed in any word processor

Send to: Clipboard

- *Clipboard* allows you to save or view selected citations from one search or several searches that you may want to print, save, email or order
- To place an item on the *Clipboard*, first click on the check box to the left of the citation, then select *Clipboard* in the dropdown box and click on the *Send to* button

Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

for SARS treatment Go Clear

Limits Preview/Index History Clipboard Details

1 item was added to Clipboard.
Clipboard items will be lost after eight hours of inactivity.
The maximum number of Clipboard items is 500.

Display Summary Show: 20 Sort Send to Text

Items 1-20 of 236 Page 1 of 12 Next

☐ 1: [Zhao Z, Zhang F, Xu M, Huang K, Zhong W, Cai W, Yin Z, Huang S, Deng Z, Wei M, Xiong J, Hawkey PM.](#) Links

Description and clinical treatment of an early outbreak of severe acute respiratory syndrome (SARS) in Guangzhou, PR. China.
J Med Microbiol. 2003 Aug;52(8):715-720.
PMID: 12867568 [PubMed - as supplied by publisher]

☐ 2: [Li Q, Zhang YH.](#) Related Articles, Links

[Clinical features of 77 patients with severe acute respiratory syndrome]
Zhongguo Wei Zhong Bing Ji Jiu Yi Xue. 2003 Jul;15(7):404-7. Chinese.
PMID: 12857492 [PubMed - in process]

- You will receive a message in a pink box stating the number of citations added to the *Clipboard*
- Notice the citation numbers of the citations added to *Clipboard* are now green
- Adding citations from multiple searches into *Clipboard* allows you to remove duplicates
- Click on the *Clipboard* option on the *Features* bar to view the citations in *Clipboard*
- To remove any citations from the *Clipboard*, click in the check box next to the citation and then select *Clip Remove* from the dropdown box and click on the *Send to* button

Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

for SARS treatment Go Clear

Limits Preview/Index History Clipboard Details

The Clipboard will hold a maximum of 500 items.
Clipboard items will be lost after eight hours of inactivity.

Display Summary Show: 20 Sort Send to Text

☐ 1: [Zhao Z, Zhang F, Xu M, Huang K, Zhong W, Cai W, Yin Z, Huang S, Deng Z, Wei M, Xiong J, Hawkey PM.](#) Links

Description and clinical treatment of an early outbreak of severe acute respiratory syndrome (SARS) in Guangzhou, PR. China.
J Med Microbiol. 2003 Aug;52(8):715-720.
PMID: 12867568 [PubMed - as supplied by publisher]

Text
File
Clip Remove
E-mail
Order

Send to: E-mail

- To email your results, first click in the check box to the left of the citation, then select *E-mail* in the dropdown box and click on the *Send to* button
- On the *E-mail* page, you must select the citation display format (including Summary, Abstract and Citation) and the email format (HTML or Text)
- HTML will allow the email message to be displayed as a PubMed results page with links to Related Articles, LinkOut and other features
- For the HTML format, the recipient's email must be set for HTML view or the email will not display properly
- You can email up to 500 citations
- You can Sort the citations
- Type in the recipient's email address and click on the *Mail* button

<input type="checkbox"/>	for	"Arsenic Poisoning"[MeSH] AND "Hair"[MeSH]	Go	Clear
Limits Preview/Index History Clipboard Details E-mail				

- Select options, enter recipient's e-mail address, and click Mail.

Search **"Arsenic Poisoning"[MeSH] AND "Hair"[MeSH]**

Format as

Sorting

Start with item send of 69

Additional text (optional)

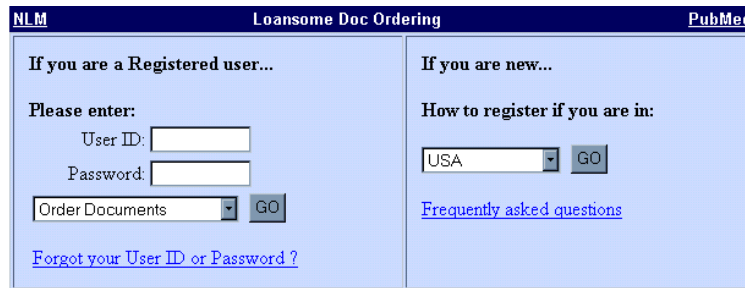
Dr Peters,
Here is the search you requested

E-mail

- The email will display the sender as *Sent by Entrez* and the subject as *PubMed Search Results*

Send to: Order

- *Order* allows to you request selected articles through Loansome Doc
- Loansome Doc lets you to request the full-text of articles from participating medical libraries
- Each library selects its own charges and service policy
- Loansome Doc is a voluntary service that medical libraries may choose to provide



- To register for Loansome Doc, you must first get a Library Ordering Identifier from a participating library (Find participating libraries at: http://docline.gov/loansome/countries_served/search_template.cfm)
- For more information on how to register and use Loansome Doc, see the Loansome Doc Tutorial at: <http://nnlm.gov/mar/loansome/introduction.html>

Related Articles

- *Related Articles* accesses citations in PubMed that are most closely related to the original article
- PubMed compares words from the Title, Abstract and MeSH terms using a powerful word-weighted algorithm
- The best matches for each citation are saved and stored in a pre-calculated set
- Those citations without a *Related Articles* link have not gone through the powerful algorithm process yet

1: [Chen L, Gong O, Xiao C.](#)



Effects of propofol, midazolam and thiopental sodium on outcome and amino acids accumulation in focal cerebral ischemia reperfusion in rats.
Chin Med J (Engl). 2003 Feb;116(2):292-6.
PMID: 12775250 [PubMed - indexed for MEDLINE]

[Related Articles, Links](#)

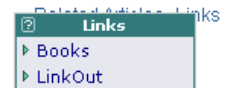
Links

- Clicking on *Links* next to a citation allows you find related information in *Books*, *LinkOut* and, if available, many NCBI molecular biology databases including Protein, Nucleotide and Gene
- *Books* finds related or background information in full-text biomedical books available through PubMed

□ 11: [Akosah KO, Larson DE, Brown WM, Paul KM, Schaper A, Green RM.](#)



Using a systemwide care path to enhance compliance with guidelines for acute myocardial infarction.
Jt Comm J Qual Saf. 2003 May;29(5):248-59.
PMID: 12751305 [PubMed - indexed for MEDLINE]



□ 12: [No authors listed]

Related Articles, Links

- *LinkOut* is mostly used to allow access to Full-Text articles and allows publishers, aggregators, libraries, biological databases, sequence centers, and other web resources to display links to their sites on related citations in PubMed
- Most providers will ***not*** allow access to Full-Text articles for free
- Libraries can link their e-journal holdings in PubMed to allow their affiliates to access their journals

□ 29: [Black HR et al.](#) Principal results of the Cont...[PMID: 12709465]

Related Articles, Links

- EDUCATION:
 - Online tutorials/courses:
 - [New England Research Institutes Inc.](#)
- LITERATURE:
 - Aggregators:
 - EBSCO
[*full-text online](#)
 - Ovid Technologies, Inc.
[*full-text online](#)
 - ProQuest Information and Learning
[*full-text online](#) [*full-text PDF](#)
 - [Libraries](#)
 - Publishers/providers:
 - HighWire Press
[*full-text online](#)
- MEDICAL:
 - Consumer health:
 - MEDLINEplus Health Information
[Circulatory Disorders](#) [Heart Diseases \(General\)](#) [High Blood Pressure](#)

Practice searches:

- 1) I need recent articles on binge drinking among college students.
- 2) I need articles on the treatment of lymphatic filariasis.
- 3) Julius Caesar had epilepsy. What other famous people had epilepsy?

SEARCHING TOOLS

Limits

- *Limits* allow you to narrow a search by limiting to a *Publication Type*, *Age*, *Language*, *Human* and/or *Gender*
- Click on the *Limit* option on *Features* bar

for

Limits Preview/Index History Clipboard Details

- Use All Fields pull-down menu to specify a field.
- Boolean operators AND, OR, NOT must be in upper case.
- If search fields tags are used enclose in square brackets, e.g., rubella [ti].
- Search limits may exclude in process and publisher supplied citations.

Limited to:

All Fields ☐ only items with abstracts

Publication Types Languages Subsets

Ages Human or Animal Gender

Entrez Date

Publication Date From To

Use the format YYYY/MM/DD; month and day are optional.

- Limit to a specific field, such as *MeSH Terms*, by using the *All Fields* dropdown box

Affiliation

All Fields

Author

EC/RN Number

Entrez Date

Filter

Grant Number

Issue

Journal

Language

MeSH Date

MeSH Major Topic

MeSH Subheading

MeSH Terms

Pagination

Publication Date

Publication Type

Secondary Source ID

Substance Name

Text Word

All Fields

Publication Types

Publication Types

Clinical Trial

Editorial

Letter

Meta-Analysis

Practice Guideline

Randomized Controlled Trial

Review

Ages

Ages

All Infant: birth-23 months

All Child: 0-18 years

All Adult: 19+ years

Newborn: birth-1 month

Infant: 1-23 months

Preschool Child: 2-5 years

Child: 6-12 years

Adolescent: 13-18 years

Adult: 19-44 years

Middle Aged: 45-64 years

Middle Aged + Aged: 45+ years

Aged: 65+ years

80 and over: 80+ years

Languages

Languages

English

French

German

Italian

Japanese

Russian

Spanish

Gender

Gender

Female

Male

Human or Animal

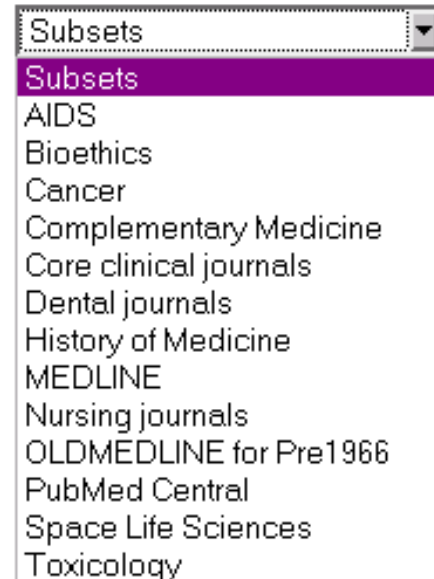
Human or Animal

Human

Animal

Subsets

- *Subsets* allows you to limit the search to specific grouping of journals
- *AIDS*: Filter for AIDSLine
- *Bioethics*: Filter for BioethicsLine
- *Cancer*: Filter for CancerLit
- *Complementary Medicine*: Citations of journal articles related to complementary and alternative medicine
- *Core clinical journals*: 120 journals considered the main journals in clinical medicine
- *Dental journals*: Dental journals in MEDLINE
- *History of Medicine*: Subjects in history of medicine
- *MEDLINE*: All citations that have been indexed since 1966
- *Nursing journals*: Nursing journals in MEDLINE
- *OLDMEDLINE for Pre1966*: Filter for 1966 and older citations
- *PubMed Central*: Filter for journals in PubMed Central
- *Space Life Sciences*: Filter for SPACELINE
- *Toxicology*: Filter for TOXLINE



A screenshot of a web interface showing a dropdown menu for 'Subsets'. The menu is open, displaying a list of 14 options: AIDS, Bioethics, Cancer, Complementary Medicine, Core clinical journals, Dental journals, History of Medicine, MEDLINE, Nursing journals, OLDMEDLINE for Pre1966, PubMed Central, Space Life Sciences, and Toxicology. The 'Subsets' header is highlighted in purple.

Publication Date, Entrez Date and Abstract Only

- *Only items with abstracts* allow you to retrieve only citations with abstracts
- *Publication Date* refers to the printing of the article, not the entry date into MEDLINE
- Select a range of dates by using the format indicated onscreen: YYYY/MM/DD
- *Entrez Date* refers to the date of Record Entry into MEDLINE



A solid grey rectangular box, likely a placeholder for a search term or a visual separator.

☐ only items with abstracts



A form for selecting a date range. It features a 'Publication Date' dropdown menu followed by 'From' and 'To' labels, each with a corresponding date input field (YYYY/MM/DD).

Use the format YYYY/MM/DD; month and day are optional.



A screenshot of a web interface showing a dropdown menu for 'Entrez Date'. The menu is open, displaying a list of time intervals: 30 Days, 60 Days, 90 Days, 180 Days, 1 Year, 2 Years, 5 Years, and 10 Years. The 'Entrez Date' header is highlighted in blue.

Limit Search Results

- *Limits* are retained for each search unless you click the check box next *Limits* to deselect them
- *Limits* are displayed in yellow on the top of the search result
- You can apply limits before or after entering the search terms

Search for cyanide poisoning [Go] [Clear]

☒ Limits [Preview/Index] [History] [Clipboard] [Details]

Limits: Adolescent: 13-18 years, 2 Years, English

Display Summary Show: 20 Sort Send to Text

Items 1-5 of 5 One page

☐ 1: Baud FJ, Borron SW, Megarbane B, Trout H, Lapostolle F, Vicaut E, Debray M, Bismuth C. Value of lactic acidosis in the assessment of the severity of acute cyanide poisoning. Crit Care Med. 2002 Sep;30(9):2044-50. PMID: 12352039 [PubMed - indexed for MEDLINE]

Preview/Index

- *Preview* allows you to see how many citations a search will retrieve
- *Index* allows you to select from a list of terms in a search field
- *Index* is especially useful when searching for known MeSH terms and their Subheadings
- Click on the *Preview/Index* option on the *Features Bar*
- Clicking the *Preview* button displays the number of citations the search retrieves without displaying the citations

Search for cyanide poisoning [Preview] [Go] [Clear]

[Limits] [Preview/Index] [History] [Clipboard] [Details]

- Enter terms and click Preview to see only the number of search results.
- To combine searches use # before search number, e.g., (#2 OR #3) AND asthma.

Search	Most Recent Queries	Time	Result
#12 Search cyanide poisoning		12:33:50	1290
#11 Search cyanide poisoning	Field: All Fields, Limits: All Child: 0-18 years, 2 Years, English	12:24:56	6
#10 Search cyanide poisoning	Field: All Fields, Limits: Adolescent: 13-18 years, 2 Years, English	12:24:31	5

Add Term(s) to Query or View Index:

- Enter a term in the text box, use the pull-down menu to specify a search field.
- Click Preview to add terms to the query box and see the number of search results, or click Index to view terms within a field.

All Fields [Preview] [Index]

Click [AND] [OR] [NOT] to add a term to the query box.

- Scroll down the bottom half of the page to use *Index*
- The number next to each term represents the number of postings for that specific term
- Combine multiple terms by using holding down the Control key on the keyboard while highlighting the selected terms
- Click on the *ADD*, *OR* or *NOT* buttons to insert the search terms in the query box
- Click on the *Go* button to run your search

▼ for ["pulmonary embolism/chemically induced"[MeSH] Preview Go Clear

Limits **Preview/Index** History Clipboard Details

- Enter terms and click Preview to see only the number of search results.
- To combine searches use # before search number, e.g., (#2 OR #3) AND asthma.

Search	Most Recent Queries	Time	Result
#12 Search	cyanide poisoning	12:33:50	1290
#11 Search	cyanide poisoning Field: All Fields , Limits: All Child: 0-18 years, 2 Years, English	12:24:56	6
#10 Search	cyanide poisoning Field: All Fields , Limits: Adolescent: 13-18 years, 2 Years, English	12:24:31	5

Add Term(s) to Query or View Index:

- Enter a term in the text box; use the pull-down menu to specify a search field.
- Click Preview to add terms to the query box and see the number of search results, or click Index to view terms within a field.
- Multiple terms selected from Index will be ORed; click AND to add to search.

MeSH Terms ▼

Click AND OR NOT to add terms selected from Index to the query box.

pulmonary embolism(19091)
 pulmonary embolism/analysis(736)
 pulmonary embolism/anatomy and histology(1376)
 pulmonary embolism/blood(729)
 pulmonary embolism/chemically induced(616)
 pulmonary embolism/classification(52)
 pulmonary embolism/complications(2433)
 pulmonary embolism/congenital(6)
 pulmonary embolism/cytology(1375)
 pulmonary embolism/diagnosis(8055)

Up Down

History

- *History* allows you to view your previous search strategies and results and to combine these search strategies
- Click on the *History* option on the *Features* bar
- In order for you to use this feature, your web browser must be set to accept cookies
- History search format: pound sign (#) search number Boolean operator pound sign search number (i.e. #17 AND #18)
- Boolean operators must be capitalized
- *History* retains 100 searches
- The search history will be lost after 8 hours of inactivity
- Click on the *Go* button to run your search
- The *Clear History* button will remove all previous searches from the list

for #3 AND #2

PreviewGoClear

LimitsPreview/IndexHistoryClipboardDetails

- Search History will be lost after eight hours of inactivity.
- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.

Search	Most Recent Queries	Time	Result
#6 Search #3 AND #2		15:34:09	39
#5 Search #4 AND #2		15:34:01	0
#4 Search cyanide poisoning		15:33:48	1293
#3 Search arsenic poisoning		15:33:32	1337
#2 Search hair/analysis [mesh]		15:33:19	1673
#1 Search SARS treatment		15:32:51	236

Clear History

MeSH Database

- The *MeSH Database* is a separate database in the Entrez system that interfaces with PubMed
- To open the *MeSH Database*, either click on the *MeSH Database* option on the left side blue menu bar or select it from the Search dropdown box.

NCBI MeSH

Search MeSH for [] Go Clear

Limits Preview/Index History Clipboard Details

SH is NLM's controlled vocabulary used for indexing articles in PubMed. MeSH terminology provides a consistent way to retrieve information that may use different terminology for the same concepts.

- Use the MeSH database to find MeSH Terms and build a search strategy.

- Enter the search term(s) in the query box and click on the *Go* button
- The search results display MeSH terms in relevancy order
- *Suggestions* lists additional possibly related MeSH terms or Entry terms

for pulmonary embolism Go Clear

Limits Preview/Index History Clipboard Details

Suggestions: [Pulmonary embolism](#); [Pulmonary embolisms](#); [Embolism, pulmonary](#); [Embolisms, pulmonary](#); [Pulmonary thromboembolism](#); [Embolism](#); [Pulmonary emphysema](#); [Pulmonary emphysemas](#); [Thromboembolism, pulmonary](#); [Pulmonary thromboembolisms](#); [more...](#)

Display Summary Show: 20 Send to Search Box with AND

- Build a search strategy using the [Send to Search Box](#) feature.
- Select a database (e.g., PubMed) under the Links menu to retrieve items with that term.

☐ 1: [Pulmonary Embolism](#) [Links](#)

Embolism in the pulmonary artery or one of its branches.

- Click on the MeSH term to view the full display
- The full display screen includes *Subheadings*, *Entry terms* and the MeSH hierarchy
- Click in the boxes next to the desired *Subheadings*
- If the MeSH term should be a main topic in any results, click on the check box next to *Restrict Search to Major Topic headings only*
- If the results should not include any MeSH terms related to your selected MeSH term, click in the check box next to *Do Not Explode this item*
- The dropdown box next to the *Send to* button allows you to print (*Text*), download (*File*), save (*Clipboard*), or use the term to create a search strategy using the preferred Boolean term (*Search Box with AND*, *Search Box with OR*, *Search Box with NOT*)

The screenshot shows the 'Full' display of the MeSH term 'Pulmonary Embolism'. At the top, there are controls for 'Display' (set to Full), 'Show' (set to 20), and 'Send to' (set to 'Search Box with AND'). A dropdown menu is open under 'Send to', showing options: Text, File, Clipboard, Search Box with AND (highlighted), Search Box with OR, and Search Box with NOT. Below these are instructions: 'If making selections (e.g., Subheadings, etc.), use the Send to Search Box feature to see PubMed records with those specifications.', 'Select PubMed under the Links menu to retrieve all records for the MeSH Term.', and 'Select NLM MeSH Browser under the Links menu for additional information.' The main section is titled '1: Pulmonary Embolism' with a description: 'Embolism in the pulmonary artery or one of its branches.' Under 'Subheadings:', there is a list of checkboxes for various subheadings: blood, chemically induced, classification, complications, congenital, diagnosis, drug therapy (checked), economics, embryology, enzymology, epidemiology, ethnology, etiology, genetics, history, immunology, metabolism, microbiology, mortality, nursing, parasitology, pathology, physiopathology, prevention and control, psychology, radiography, radionuclide imaging, radiotherapy (checked), rehabilitation, surgery (checked), therapy (checked), ultrasonography, urine, veterinary, and virology. At the bottom, there are two checked options: 'Restrict Search to Major Topic headings only' and 'Do Not Explode this term (i.e., do not include MeSH terms found below this term in the MeSH tree)'. A 'Links' button is visible on the right.

- You can add more terms to your search strategy by typing them in the query box
- Click on the *Search PubMed* button to run the search in PubMed

The screenshot shows the PubMed search interface. At the top, there is a search box with the text 'for' and buttons for 'Go' and 'Clear'. Below the search box are tabs for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. The 'Preview/Index' tab is selected, showing a search strategy in a text area: '("Pulmonary Embolism/drug therapy"[MAJR:NoExp] OR "Pulmonary Embolism/radiotherapy"[MAJR:NoExp] OR "Pulmonary Embolism/surgery"[MAJR:NoExp] OR "Pulmonary'. Below the text area are buttons for 'Search PubMed' and 'Clear'. At the bottom, there are controls for 'Display' (set to Full), 'Show' (set to 20), and 'Send to' (set to 'Search Box with AND').

- If making selections (e.g., Subheadings, etc.), use the [Send to Search Box](#) feature to see PubMed records with those specifications.
- Select PubMed under the Links menu to retrieve all records for the MeSH Term.
- Select [NLM MeSH Browser](#) under the Links menu for additional information.

PUBMED FEATURES

Cubby

- In *Cubby*, you can store frequently used search strategies and an email address, and LinkOut and document delivery preferences
- Click on *Cubby* on the blue menu bar to register or to access your account
- In order for you to use this feature, your web browser must be set to accept cookies

The screenshot shows the NCBI Cubby interface. At the top, there's a navigation bar with links: PubMed, Nucleotide, Protein, Genome, Structure, PopSet, Taxonomy, and OMIM. Below this is a search bar with a dropdown menu set to 'PubMed' and a 'Go' button. To the left of the search bar is a blue sidebar with links: 'About Entrez', 'Entrez PubMed Overview Help | FAQ', and 'User Account Resources'. The main content area has a heading 'Cubby' and a paragraph explaining the feature: 'The Cubby provides you with a Stored Search feature to store and update searches. It also allows you to customize your LinkOut display to include or exclude links to providers. See [Help](#) for additional information.' Below this is a note: 'The Cubby requires that your system accepts [cookies](#).' At the bottom, there's a 'Login for Registered Cubby Users:' section with fields for 'User Name:' and 'Password:', a 'Login' button, and links for 'I Want to [Register](#) for Cubby' and 'Help! [I Forgot My Password](#)'.

- Registration is free to access *Cubby*
- NLM does not store your User Name or Password

The registration form is titled 'Registration for Cubby Users:'. It contains the following fields and labels: 'User Name (3-10 characters):', 'Password (6-8 characters):', 'Retype Password:', 'For security purposes, enter either:', 'Mother's Maiden Name:', 'OR', 'Pet's Name:', and a 'Register' button.

Stored Searches

- To store search strategies, create a search strategy in PubMed
- Click on the *Cubby* option on the blue menu bar and automatically your most recent search strategy is available for storing
- Create a name for the search strategy in the *Cubby Search Name* box
- Click on the *Store in Cubby* button and the search strategy is added to the *Stored Searches*
- To remove a *Stored Search*, click the check box next to the name and click on the *Delete Selected Searches* button

for

[Limits](#) [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)

Last Search

- Edit the Cubby Search Name below to change the name of the search, click Store In Cubby.
- History numbers (e.g., #3) cannot be used in Stored Searches.

Search **animal allergies** Field: **All Fields**, Limits: **All Child: 0-18 years**

Cubby Search Name:

Cubby Stored Searches

- To see new items, select searches and click What's New for Selected.
- Click the Cubby Search Name to display information about the stored search.

Search	Cubby Search Name	Date and Time
<input type="checkbox"/> 7:	asthma	17-Apr-2001 13:04:42
<input type="checkbox"/> 6:	pneumonia	12-Apr-2001 13:39:24
<input type="checkbox"/> 5:	pulmonary heart disease	06-Apr-2001 11:29:29
<input type="checkbox"/> 4:	subdural hematoma	06-Apr-2001 10:02:31
<input type="checkbox"/> 3:	gallstone	05-Apr-2001 20:14:57
<input type="checkbox"/> 2:	chocolate	22-Mar-2001 16:08:11
<input type="checkbox"/> 1:	paxil 2	07-Sep-2001 14:58:10

☐ Select/Deselect All

What's New for Selected

- To see if a search strategy yields any new citations, click on check box next to the search name and then click on *What's New for Selected*
- The last date the search was run is stored and automatically the citations retrieved are since that date
- Click on the number in the *What's New* column to retrieve the new results

Cubby Stored Searches

- Click new for latest results and to update Cubby Stored Search date and time.
- Click the Cubby Search Name to display information about the stored search.

Search	Cubby Search Name	Date and Time	What's New
<input type="checkbox"/> 1:	west nile virus	03-Oct-2002 11:01:23	45 new

Delete Selected Searches

Editing a Search Strategy

- To edit a search strategy, click on the search name in the *Stored Searches List*
- Click one the *Search* button to rerun the search in PubMed

Stored Search Information

- Click Search to run this search without updating it.

Name: **subdural hematoma**

Date and Time search last updated: **12-Sep-2002 17:15:00**

Database: **PubMed**

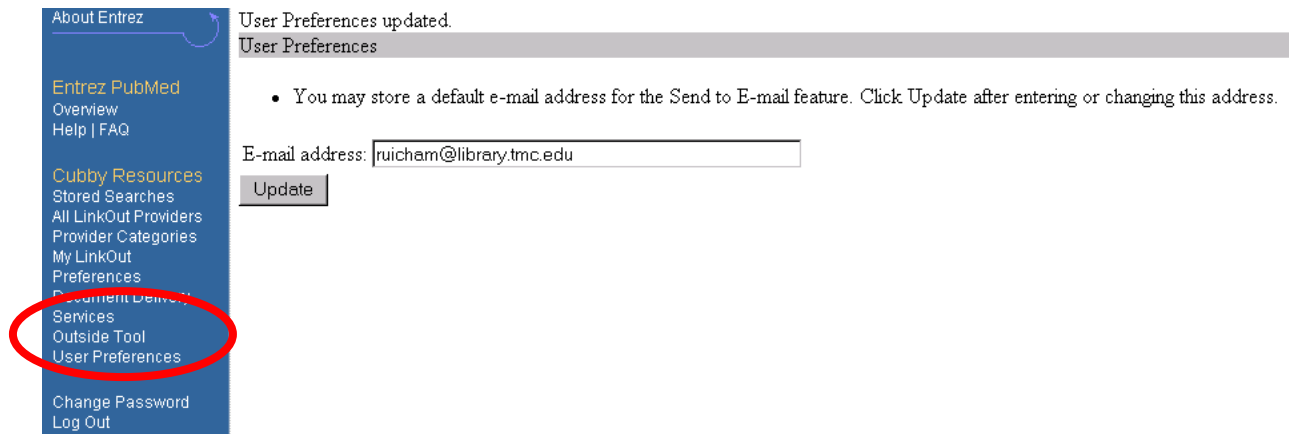
Search: ("Hematoma, Subdural/drug therapy"[MAJR:NOEXP] OR "Hematoma, Subdural/surgery"[MAJR:NOEXP]) AND Child[MESH]

Search

- Revise the search strategy in PubMed
- Click on the *Cubby* option on the blue menu bar, then click on the *Store in Cubby* button to resave the search strategy

User Preferences

- To store a default email address that can be used with the *Send to: E-mail* option, in *Cubby* click on *User Preferences* on the blue menu bar
- Type the email address and click the *Update* button
- You must be logged into *Cubby* when using the *Send to: E-mail* option for this default address to display automatically
- The email address may be changed during sessions



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Cubby Resources
Stored Searches
All LinkOut Providers
Provider Categories
My LinkOut
Preferences
User Preferences
Document Delivery Services
Outside Tool
Change Password
Log Out

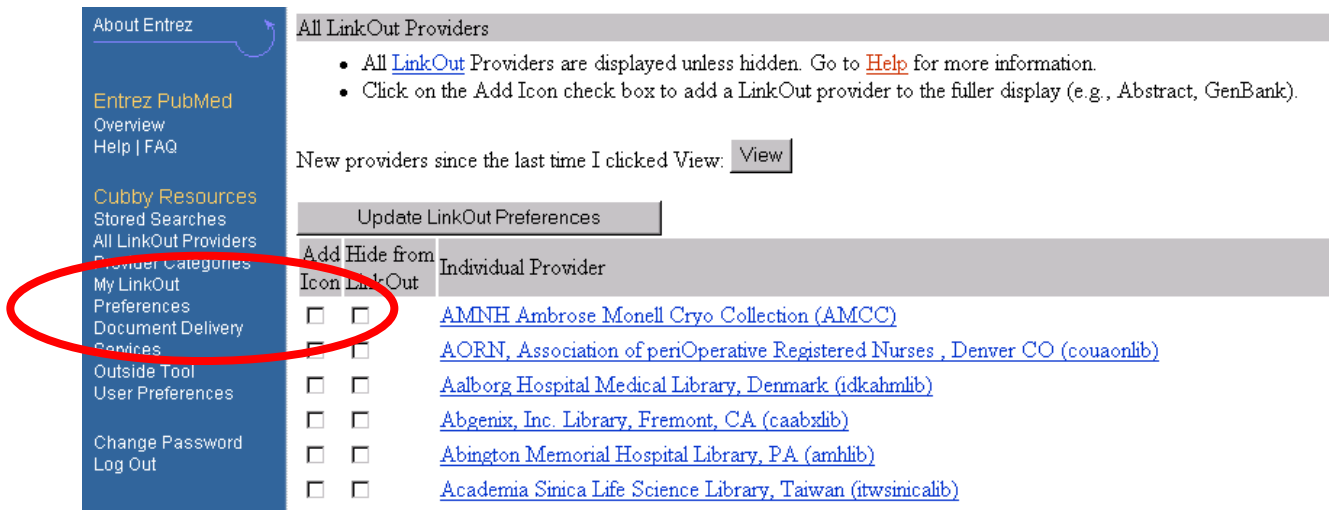
User Preferences updated.
User Preferences

- You may store a default e-mail address for the Send to E-mail feature. Click Update after entering or changing this address.

E-mail address:

LinkOut Preferences

- To set LinkOut preferences, click on *All LinkOut Providers* or *Provider Categories*
- *All LinkOut Providers* lists publishers, aggregators, libraries, biological databases, sequence centers, and other Web resources with links in PubMed
- *Provider Categories* lists the broad categories (e.g. Literature) and then the subject categories (e.g. aggregators, libraries, publishers/providers)
- To view or update your preferences, click on *My LinkOut Preferences*



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Preferences
My LinkOut Preferences
Document Delivery Services
Outside Tool
Change Password
Log Out

All LinkOut Providers

- All [LinkOut](#) Providers are displayed unless hidden. Go to [Help](#) for more information.
- Click on the Add Icon check box to add a LinkOut provider to the fuller display (e.g., Abstract, GenBank).

New providers since the last time I clicked View:

Add	Hide from	Individual Provider
Icon	LinkOut	
<input type="checkbox"/>	<input type="checkbox"/>	AMNH Ambrose Monell Cryo Collection (AMCC)
<input type="checkbox"/>	<input type="checkbox"/>	AORN, Association of periOperative Registered Nurses , Denver CO (couaonlib)
<input type="checkbox"/>	<input type="checkbox"/>	Aalborg Hospital Medical Library, Denmark (idkahlmlib)
<input type="checkbox"/>	<input type="checkbox"/>	Abgenix, Inc. Library, Fremont, CA (caabxlib)
<input type="checkbox"/>	<input type="checkbox"/>	Abington Memorial Hospital Library, PA (amhlib)
<input type="checkbox"/>	<input type="checkbox"/>	Academia Sinica Life Science Library, Taiwan (itwsinicalib)

Journals Database

- The *Journals Database* allows you to search journals indexed in PubMed and other Entrez databases
- You can search by the journal title, MEDLINE abbreviation, NLM ID, ISO abbreviation, or ISSN
- The list of all the Entrez journals and those with full-text web sites is available from this page
- To open the *Journals Database*, either click on the *Journals Database* option on the blue menu bar or select it from the Search dropdown box.
- Enter the search term(s) in the query box and click the *Go* button

NCBI Journals National Library of Medicine NLM

Entrez PubMed Nucleotide Protein Genome Structure PMC Journals Books

Search Journals for [] Go Clear

Limits Preview/Index History Clipboard Details

- Use the Entrez Journals database to search for a journal and then link to records for that journal in the database.
- The Journals database can be searched using the journal title, MEDLINE abbreviation, NLM ID, ISO abbreviation, or ISSN. The database includes the journals in all Entrez databases, e.g., PubMed, Nucleotide, Protein.
- Lists of all [Entrez journals](#) and those with [links to full-text web sites](#) are available.

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Single Citation

Matcher

- The search results display journal titles in relevancy order
- *Suggestions* lists additional possibly related journal titles

NCBI Journals National Library of Medicine NLM

Entrez PubMed Nucleotide Protein Genome Structure PMC Journals Books

Search Journals for Arthritis Go Clear

Limits Preview/Index History Clipboard Details

Suggestions: [Arthroscopy](#); [Art med](#); [Art am](#); [Art hist](#); [Med art](#); [Art bull](#); [Birthright](#); [Archivist](#); [Nutrition](#); [Am arch](#); [more...](#)

Display Summary [] [20] Send to Text

Items 1-6 of 6 One page

- Use the Links menu to retrieve records for that journal from a database (e.g. PubMed) or send the journal to the [Single Citation Matcher](#)
- Build a list of journals using the [Send to Search Box feature](#)
- Click on the NLM ID to display journal information from [Locatorplus](#).

☐ 1: [Arthritis and rheumatism](#) Links
pISSN: 0004-3591
MEDLINE Abbr: Arthritis Rheum
ISO Abbr: Arthritis Rheum
NLM ID: [0370605](#)

☐ 2: [Arthritis care and research : the official journal of the Arthritis Health Professions Association](#) Links
pISSN: 0893-7524
MEDLINE Abbr: Arthritis Care Res
NLM ID: [8809082](#)

- Clicking on the journal title displays the full journal record
- Clicking on the NLM ID number displays the journal title record in LOCATORplus, NLM's catalog
- Clicking on *Links* and selecting *PubMed* will retrieve all the citations in PubMed for the journal going back to its inclusion in MEDLINE or to 1953

The screenshot shows the NCBI Journals homepage. The search bar contains 'arthritis'. Below the search bar, there are tabs for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. The 'Details' tab is selected. The page displays a list of search results for 'arthritis'. The first result is 'Arthritis and rheumatism' with NLM ID 0370605. To the right of the search results, there is a 'Links' menu with options: 'PubMed', 'Protein', 'Nucleotide', and 'Single Citation Matcher'. The 'PubMed' option is highlighted.

- The *Send to* button allows you to redisplay the results in a *Text* format, download a *File*, move selected results to the *Clipboard*, or build a search a PubMed search strategy within the *Search Box with OR*

This screenshot is similar to the previous one, but the 'Send to' dropdown menu is open, showing options: 'Text', 'File', 'Clipboard', and 'Search Box with OR'. The 'Search Box with OR' option is highlighted. The search results for 'arthritis' are still visible, showing two results: 'Arthritis and rheumatism' (NLM ID 0370605) and 'Arthritis care and research : the official journal of the Arthritis Health Professions Association' (NLM ID 8809082).

- TIP: Using Cubby, the *Search Box with OR* feature allows you to save a permanent personalized list of journals titles. You will then be able to limit all future PubMed searches to these selected titles

NCBI Journals National Library of Medicine NLM

Entrez PubMed Nucleotide Protein Genome

Search Journals for Arthritis Go Clear

Limits Preview/Index History Clipboard Details

"Arthritis Rheum"[Journal: __jrid881] OR "Arthritis Care Res"[Journal: __jrid1049]

Search PubMed Clear

Suggestions: [Arthroscopy](#); [Art med](#); [Art am](#); [Art hist](#); [Med art](#); [Art bull](#); [Birthright](#); [Archivist](#); [Nutrition](#); [Am arch](#); [more](#)

Display Summary Show: 20 Send to Text

Items 1-6 of 6

- Use the Links menu to retrieve records for that journal from a database (e.g. PubMed) or send the
- Build a list of journals using the [Send to Search Box feature](#)
- Click on the NLM ID to display journal information from [Locatorplus](#).

☐ 1: [Arthritis and rheumatism](#)
 pISSN: 0004-3591
 MEDLINE Abbr: Arthritis Rheum
 ISO Abbr: Arthritis Rheum.
 NLM ID: [0370605](#)

Text Version

- Click on the *Text Version* option on the blue menu bar

NCBI PubMed National Library of Medicine NLM

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search PubMed for Go Clear

Limits Preview/Index History Clipboard Details

About Entrez

Text Version

- Enter one or more search terms, or click [Preview/Index](#) for advanced searching.
- Enter [author names](#) as smith jc. Initials are optional.
- Enter [journal titles](#) in full or as MEDLINE abbreviations. Use the

- The Text Version was created for users who require special adaptive equipment to access the Web

Welcome to PubMed Text Version

Search PubMed for Search

[PubMed](#), a service of the [National Library of Medicine](#), developed by the [National Center for Biotechnology Information \(NCBI\)](#), provides access to citations from MEDLINE and additional life science journals.

Single Citation Matcher

- Use *Single Citation Matcher* to find a full citation using partial citation information
- Click on the *Single Citation Matcher* option on the blue menu bar

The screenshot shows the NCBI Citation Matcher for Single Articles interface. On the left is a blue sidebar with the NCBI logo and a menu including 'About Entrez', 'Text Version', 'Entrez PubMed' (with sub-links: Overview, Help | FAQ, Tutorial, New/Noteworthy, E-Utilities), 'PubMed Services' (with sub-links: Journals Database, MeSH Database, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, LinkOut, Cubby), and 'PubMed' (with sub-links: Nucleotide, Protein, Genome, Structure, PMC, Taxonomy, OMIM, Books). The main content area has a title 'Citation Matcher for Single Articles' and a sub-header 'Enter information about the article you wish to find.' Below this are input fields for 'Journal:' (containing 'bmj'), 'Date:' (containing '2000'), 'Volume:' (empty), 'Issue:' (empty), 'First page:' (containing '1599'), 'Author's last name and initials (e.g., Smith BJ)' (empty), and 'Title words:' (empty). There are 'Search' and 'Clear' buttons. Below the input fields is a 'Notes:' section with a bulleted list: 'You may omit any item if you wish', 'Journal titles may be entered in full or as valid MEDLINE abbreviations', 'For Date, you may enter yyyy, yyyy/mm, or yyyy/mm/dd. For example, 1998, 1998/03, or 1998/03/06', and 'Author names are automatically truncated to account for varying initials, e.g., smith j will also match on smith ja, smith jb, smith jc jr, etc. Enclose author names in double quotes to retrieve that exact match, e.g., "smith j"'. The sidebar also contains a 'PubMed' link.

- Enter known citation information such as journal name, first page number, author name, etc.
- Click on the *Search* button
- Scroll through the results until you find the correct citation

The screenshot shows the search results page for the Single Citation Matcher. At the top, there is a search bar with the query 'for bmj[jour] AND 1599[page] AND 2000[pat]' and 'Go' and 'Clear' buttons. Below the search bar are tabs for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. Below the tabs is a 'Display' section with a dropdown menu set to 'Summary', a 'Show:' dropdown set to '20', a 'Sort' dropdown, and a 'Send to' dropdown set to 'Text'. Below the 'Display' section is a 'One page.' link. The results are listed as 'Items 1-3 of 3'. There are three results, each with a checkbox, a link to the article, and a 'Related Articles, Links' link. Result 1 is 'Aronson JK' with the title 'Autopathography: the patient's tale.' and the text 'BMJ. 2000 Dec 23;321(7276):1599-602. Review. No abstract available. PMID: 11124195 [PubMed - indexed for MEDLINE]'. Result 2 is 'Hentschel J' with the title 'Some people just have asymptomatic haematuria.' and the text 'BMJ. 2000 Jun 10;320(7249):1599-600. No abstract available. PMID: 10896425 [PubMed - indexed for MEDLINE]'. Result 3 is 'Ledingham JG, Warrell DA, Weatherall D' with the title 'Asymptomatic haematuria. Oxford textbook of medicine might have helped author.' and the text 'BMJ. 2000 Jun 10;320(7249):1599; author reply 1599-600. No abstract available. PMID: 10896424 [PubMed - indexed for MEDLINE]'. Each result also has a 'Related Articles, Links' link.

Clinical Queries/Systematic Reviews

- *Clinical Queries* is a specialized search query with built-in search research methodology filters that is intended for clinicians
- Click on the *Clinical Queries* option on the blue menu bar
- See the *Clinical Queries Table* to see the terms added to your search request
- Select the radial button next to *Clinical Queries using Research Methodology Filters*
- Select a *Category* (Therapy, Diagnosis, Etiology, Prognosis)
- Select an *Emphasis*: *Sensitivity* includes relevant articles but probably some less relevant; *Specificity* retrieves more precise articles but omits some relevant ones
- Type in search term(s) and click on *Go*

NCBI PubMed Clinical Queries

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

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Batch Citation Matcher
Clinical Queries
LinkOut
Cubby
Related Resources
Order Documents
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov

Select from two filters to limit your retrieval. Choose either Clinical Queries or Systematic Reviews. Enter your search topic in the box below and click Go.

☒ Clinical Queries using Research Methodology Filters

This specialized search is intended for clinicians and has built-in search "filters" based largely on [Haynes RB et al.](#) Four study categories are provided, and the emphasis may be more sensitive (i.e., most relevant articles but probably some less relevant ones) or more specific (i.e., mostly relevant articles but probably omitting a few). See [filter table](#) for details.

Indicate the category and emphasis below:

Category: ☐ therapy ☐ diagnosis ☐ etiology ☒ prognosis
Emphasis: ☐ sensitivity ☒ specificity

☐ Systematic Reviews

This feature retrieves systematic reviews and meta-analysis studies for your search topic(s). For more information, see [Help](#). [Related sources](#) are also provided.

Enter subject search:
asthma

- The search is conducted in PubMed

PubMed National Library of Medicine NLM

Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

for (asthma) AND (prognosis [MH:NOEXP] OR survi

Limits Preview/Index History Clipboard Details

Display Summary Show: 20 Sort Send to Text

Items 1-20 of 1056 Page 1 of 53 Next

☐ 1: [Braman SS.](#) [Related Articles, Link](#)

Asthma in the elderly.
Clin Geriatr Med. 2003 Feb;19(1):57-75. Review.
PMID: 12735115 [PubMed - indexed for MEDLINE]

- *Systematic Reviews* combines the search term with citations retrieved by PubMed's Systematic Reviews search strategy.
- For more information see:
http://www.nlm.nih.gov/pubs/techbull/jf02/jf02_systematic_reviews.html
- Select the radial button next to *Systematic Reviews*
- Type in your search term(s) and click on *Go*

PubMed Clinical Queries

Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Select from two filters to limit your retrieval. Choose either Clinical Queries or Systematic Reviews. Enter your search topic in the box below and click Go.

☐ Clinical Queries using Research Methodology Filters

This specialized search is intended for clinicians and has built-in search "filters" based largely on [Haynes RB et al.](#) Four study categories are provided, and the emphasis may be more sensitive (i.e., most relevant articles but probably some less relevant ones) or more specific (i.e., mostly relevant articles but probably omitting a few). See [filter table](#) for details.

Indicate the category and emphasis below:

Category: ☐ therapy ☐ diagnosis ☐ etiology ☒ prognosis

Emphasis: ☐ sensitivity ☒ specificity


☒ Systematic Reviews


This feature retrieves systematic reviews and meta-analysis studies for your search topic(s). For more information, see [Help](#). [Related sources](#) are also provided.


Enter subject search:

asthma

- The search is conducted in PubMed



National Library of Medicine


Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
<div style="display: flex; align-items: center;"> <input type="text" value="for (asthma) AND systematic[sb]"/> <input type="button" value="Go"/> <input type="button" value="Clear"/> </div>							
Limits Preview/Index History Clipboard Details							
<div style="display: flex; align-items: center;"> <div>Display: Summary</div> <div>Show: 20</div> <div>Sort: Text</div> <div>Send to: Text</div> </div>							
Items 1-20 of 999 <div style="float: right;"> Page 1 of 50 Next </div>							
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <input type="checkbox"/> 1: Fulhan J, Collier S, Duggan C.  Update on pediatric nutrition: Breastfeeding, infant nutrition, and growth. Curr Opin Pediatr. 2003 Jun;15(3):323-32. PMID: 12806265 [PubMed - in process] </div> <div style="flex: 0.5; text-align: right; font-size: small;"> Related Articles, Links </div> </div>							

Practice Searches:

- 1) I need all articles on sleep disorders secondary to closed head injuries.
- 2) Does antibiotic prophylaxis prevent recurrent UTIs in children with anatomic abnormalities?
- 3) I need articles on conversion disorders with urinary and gastrointestinal incontinence.

OTHER NLM RESOURCES

NLM Gateway (<http://gateway.nlm.nih.gov>)

- The Gateway allows users to search NLM's Web site and many of its databases at once



[New Search](#)

Search

- Enter one or more search terms.

[Overview](#)

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The NLM Gateway allows users to search in multiple retrieval systems at the U.S. National Library of Medicine (NLM). The current Gateway searches MEDLINE/PubMed, OLDMEDLINE, LOCATORplus, MEDLINEplus, *ClinicalTrials.gov*, DIRLINE, Meeting Abstracts, and HSRProj. See the [Overview](#) for details.

Other NLM Resources

[Ordering Info.](#)

[Clinical Alerts](#)

[ClinicalTrials.gov](#)

[HSTAT](#)

[LOCATORplus](#)

[MEDLINEplus](#)

[PubMed](#)

[TOXNET](#)

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[U.S. National Library of Medicine](#) | [National Institutes of Health](#) | [Department of Health & Human Services](#) | [Freedom of Information Act](#) | [Copyright & Privacy](#)

ClinicalTrials.gov (<http://clinicaltrials.gov/>)

- This sources gives access to information about clinical trials from NIH, other Federal agencies, as well as from the pharmaceutical industry
- Each record contains information on who is eligible and who to contact for more information



The U.S. [National Institutes of Health](#), through its [National Library of Medicine](#), has developed *ClinicalTrials.gov* to provide patients, family members and members of the public current information about clinical research studies. Before searching, you may want to learn more about [clinical trials](#) and more about [this Web site](#). Check often for regular updates to *ClinicalTrials.gov*.

Search Clinical Trials

Enter words or phrases, separated by commas:

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[Tips](#)

Search by Specific Information


[Focused Search](#) - search by disease, location, treatment, sponsor...

Browse

[Browse by Condition](#) - studies listed by disease or condition

[Browse by Sponsor](#) - studies listed by funding organization

MEDLINEplus (<http://medlineplus.gov/>)



MEDLINE^{plus}
Health Information

A service of the U.S. NATIONAL LIBRARY OF MEDICINE
and the NATIONAL INSTITUTES OF HEALTH

Search

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Start here with over 600 topics on conditions, diseases and wellness

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About your prescription and over-the-counter medicines

▶ Medical Encyclopedia
Includes pictures and diagrams

▶ Dictionary
Spellings and definitions of medical words

▶ News
Health News from the past 30 days

▶ Directories
Find doctors, dentists and hospitals

▶ Other Resources
Local libraries, health organizations, international sites and more

Current Health News

- ▶ [Folic Acid May Not Cut Risk of Heart Attack, Death](#)
- ▶ [Miso Soup, Soy Compound Lowers Breast Cancer Risk](#)
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Infections in the news:

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- ▶ [SARS](#) (Severe Acute Respiratory Syndrome)
- ▶ [West Nile Virus](#)

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sound and pictures



ClinicalTrials.gov
Studies for new
drugs and treatments



NIH SeniorHealth
Health information
for older adults



▶ What's new on MEDLINEplus?
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▶ Take a [tour](#) of the site

- MEDLINEplus is NLM's consumer health site
- It includes links to Full-Text information from reputable sources like NIH agencies, other federal agencies, and associations
- It includes information on over 650 conditions and diseases
- Also it has dictionary, encyclopedia and drug information
- A Spanish version is also available

BOOLEAN OPERATORS

Boolean Search Rules & Syntax

Boolean operators, AND, OR, NOT must be entered in UPPERCASE, e.g., vitamin c OR zinc.

PubMed processes all Boolean connectors in a left-to-right sequence. You can change the order in which PubMed processes a search statement by enclosing an individual concept in parentheses. The terms inside the set of parentheses will be processed as a unit and then incorporated into the overall strategy, e.g., common cold AND (vitamin c OR zinc).

If PubMed finds a phrase within a search strategy string that uses unqualified terms, it will automatically search the terms as a phrase rather than simply combining the individual words. For example, if you enter air bladder fistula in the PubMed query box, PubMed will search "air bladder" as a phrase. If you do not want this automatic phrase parsing, enter each term separated by the Boolean operator AND, e.g., air AND bladder AND fistula. Click Details to see how PubMed translated your search strategy.

Follow PubMed's search and syntax rules to enter search terms, specify the search field to be searched, and the Boolean operators in your search statement:

search term [tag] BOOLEAN OPERATOR search term [tag]

Examples of Boolean Search Statements:

dna [mh] AND crick [au] AND 1993 [dp]

OR

By combining two or more query terms (or sets) using OR, a set will be created which contains all the documents containing any of the query terms (or sets) (with duplicates eliminated), e.g., "heart attack OR myocardial infarction."

AND

By combining two or more query terms (or sets) using AND, a set will be created which contains only those documents which have each and every query term (or set), e.g., "blood pressure AND stroke."

NOT

By combining two query terms (or sets) using NOT, a set will be created that contains those documents with the first query term (or set), but which specifically excludes those documents with the second query term (or set), e.g., "health reform NOT health maintenance organizations."

PUBMED FIELD DESCRIPTIONS

Important Search Field Descriptions and Tags

Affiliation [AD] Institutional affiliation and address of the first author, and grant numbers.

All Fields [ALL] Includes all searchable PubMed fields.

Author Name [AU] The format to search for an author name is: last name followed by a space and up to the first two initials followed by a space and a suffix abbreviation, if applicable, all without periods or a comma after the last name.

Entrez Date [EDAT] Date the citation was added to the PubMed database.

Journal Title [TA] The journal title abbreviation, full journal name, or ISSN number.

Language [LA] The language in which the article was published. You can either enter the language or enter just the first three characters of most languages, e.g., chi [la] retrieves the same as chinese [la]. The most notable exception is jpn [la] for Japanese.

MeSH Major Topic [MAJR] A MeSH term that is one of the main topics discussed in the article.

MeSH Terms [MH] NLM's Medical Subject Headings controlled vocabulary of biomedical terms, which is used to describe the subject of each journal article in MEDLINE.

Personal Name as Subject [PS] Use this search field tag to limit retrieval to where the name is the subject of the article. The search rules for Author [au] apply to this field.

Publication Date [DP] The date that the article was published.

Publication Type [PT] Describes the type of material the article represents.

Subheadings [SH] Subheadings are used with MeSH terms to help describe more completely a particular aspect of a subject.

Text Words [TW] Includes all words and numbers in the title and abstract, and MeSH terms, subheadings, chemical substance names, personal name as subject, and MEDLINE Secondary Source (SI) field.

Title Words [TI] Words and numbers included in the title of a citation.

Title/Abstract Words [TIAB] Words and numbers included in the title and abstract of a citation.